

Docket No. 01-0696
ICC Staff Cross Exhibit 3.0
Staff Cross 01-0696 (Rea)
3

ILLINOIS COMMERCE COMMISSION
DATA REQUEST

5/22/02 Rea
RECEIVED
MAR 12 2002

Illinois Commerce Commission
FINANCE/RATES

Utility Company: MidAmerican Energy Company

Docket No.: 01-0696 Gas Rate Case

Date of Response: February 7, 2002

Utility Representative: Charles B. Rea

ML-4 Reference Exhibit__ (CBR-5).

Please explain what is meant by "Typical" Service, Metering, and Regulator Costs. Explain how these "Typical" costs were determined, with a description and cost analysis of each component included in each "Typical" cost for each rate class. If a sampling was used, provide the number of samples taken for each rate class and explain how the estimate was projected from the sample, with calculations provided.

Response:

"Typical" service, metering, and regulator costs were determined using the following methodology:

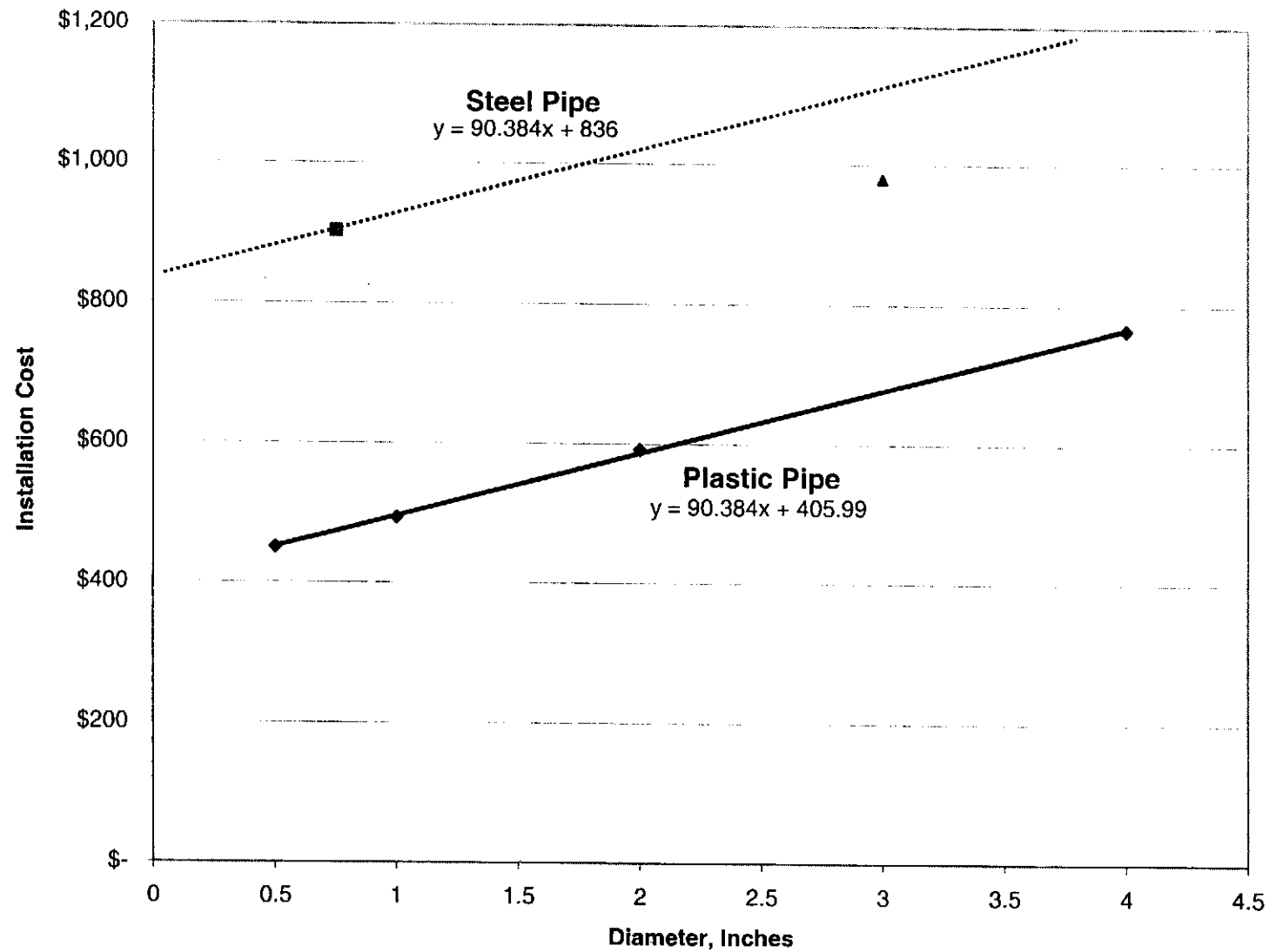
1. The average cost per foot for services installed in 2000 was tabulated by size.
2. The average cost per foot was multiplied by 100 resulting in a cost per service¹. The service size vs. cost per service was graphed and Microsoft Excel calculated the resulting linear equation. Based on the slope of the line calculated, the linear equation representing costs for steel services was determined through the single steel service point, Attachment ML-4A.
3. The linear equations were used to calculate costs for service sizes which were either not available or too few to be representative of the costs. These are tabulated on Attachment ML-4B.
4. The peak day usage was used to develop small, medium, and large volume design criteria. These values were 10, 250, and 5,000 CCF (hundred cubic feet). This peak day usage was divided by 24 hours to establish a volume per hour flow for use in the design program, which was 41.7, 1,042, and 20,833 CFH (cubic feet per hour).

¹ The cost per service was based on 100 feet, as provided in MidAmerican Energy Company Schedule of Rates for Gas Service in Illinois, Ill. C. C. No. 2, Original Sheet No. 35.

ML-4 (Cont.)

5. MidAmerican's on-line design program, Meter Set Configuration, was used to determine service, regulator/relief, and meter sizing for the three volumes. These are Attachment ML-4C, sheets 1 through 10.
6. For each of the three volumes, standard distribution pressures were used as inlet pressures, standard delivery pressures were used as outlet pressures, and the service length of 100 feet was used for standard service length. These were inputted into the Meter Set Configuration program. Results returned by the Meter Set Configuration program were the diameter of service, meter, regulator, and the relief valve, if necessary. The equipment was priced using information from MidAmerican's inventory system, Attachment ML-4D, and meter pricing spreadsheet, Attachment ML-4E. The service was priced based on the 100-foot cost for the diameter indicated. Because $\frac{3}{4}$ " is not a standard service size, the 1" service cost was used in those instances.
7. Absent specific information on occurrence of the specific configurations, these were calculated for each configuration for each of the small, medium, and large volume customers, based on the simple arithmetic mean for each.

Cost of Service vs. Pipe Diameter



Cost of 100 Feet of Service

Raw Data

Plastic Pipe	0.5	\$	450.35
	1	\$	494.04
	2	\$	591.70
	3	\$	979.97
	4	\$	765.74
Steel Pipe	0.75	\$	4,785.51
	1.25	\$	217.44
	2	\$	44,700.00

Service Data

Plastic Pipe	0.5	\$	450.35
	1	\$	494.04
	2	\$	591.70
	4	\$	765.74
Steel Pipe	0.75	\$	904.00

Steel Pipe	0.75	\$	904.00
	2	\$	44,700.00

Not used in the analysis--outlying point.

Plastic Services

Diameter, Inches	Cost per Service*
0.5	\$ 451
1.0	\$ 496
2.0	\$ 587
3.0	\$ 677
4.0	\$ 768

Steel Services

Diameter, Inches	Cost per Service**
0.75	\$ 904
1.25	\$ 949
2.0	\$ 1,017
3.0	\$ 1,107
4.0	\$ 1,198

* Service cost is based on 100 feet and calculated with the following equation:

$$\text{Cost} = 90.394 \times \text{Diameter} + 405.99$$

** Service cost is based on 100 feet and calculated with the following equation:

$$\text{Cost} = 90.394 \times \text{Diameter} + 836$$

Attachment C
Small Volume
LP

①



Meter Set Configuration

Customer/Job Information

Work Request:

Customer: N/A

City: N/A

Date Needed: 08/14/01

Address: N/A

Zip: 52803

State: N/A

Customer's Load: 41.7 CFH

Customer's Delivery
Pressure: 0.25 PSIGMaximum Inlet
Pressure: .5 PSIG

Minimum Inlet Pressure: .36 PSIG

Type of Service Pipe: Plastic

Length of Service Pipe: 100 Feet

Diameter of Service Pipe: (Auto
Calculate)

Regulator

Model Number: S402

Spring Number: T13527T0012

Spring Color: YELLOW

Orifice Size: 0.25

Body Size: 3/4 x 1 in threaded

Item ID: 372100

Meter

Model Number: AC250 42

Item ID: AC250

Multiplier: 0.9945

Delivery Pressure: 0.25 psig

Meter Set Pieces

1A: 38-9970

20 LT: 38-9971

Relief Valve Not Needed

Model Number:

Spring Number:

Size:

Item ID:

Diameter Of Service: 0.50
451

	Mat'l's	Labor	Total
Meter Set	42	50	92
Service			451
			543

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Small Volume
20/0.25

(2)



Meter Set Configuration

Customer/Job Information

Work Request:

Date Needed: 08/14/01

Customer: N/A

Address: N/A

City: N/A

State: N/A

Zip: 52803

Customer's Load: 41.7 CFH

Customer's Delivery Pressure: 0.25 PSIG

Maximum Inlet Pressure: 20 PSIG

Minimum Inlet Pressure: 5 PSIG

Type of Service Pipe: Plastic

Length of Service Pipe: 100 Feet

Diameter of Service Pipe: (Auto Calculate)

Regulator

Model Number: S402

17

Spring Number: T13527T0012

Spring Color: YELLOW

Orifice Size: 0.1250

Body Size: 3/4 x 1 in threaded

Item ID: 372102

Meter

Model Number: AC250

42

Item ID: AC250

Multiplier: 0.9945

Delivery Pressure: 0.25 psig

Meter Set Pieces

1A: 38-9970

20 LT: 38-9971

Diameter Of Service: 0.50

451

Relief Valve

Not Needed

Model Number:

Spring Number:

Size:

Item ID:

	Mat'l's	Labor	Total
Meter	42	50	92
Regulator	17	17	34
Service			451
			577

Small Volume
60/0.25

3



Meter Set Configuration

Customer/Job Information

Work Request:

Date Needed: 08/14/01

Customer: N/A

Address: N/A

City: N/A

State: N/A

Zip: 52803

Customer's Load: 41.7 CFH

Customer's Delivery Pressure: 0.25 PSIG

Maximum Inlet Pressure: 60 PSIG

Minimum Inlet Pressure: 23 PSIG

Type of Service Pipe: Plastic

Length of Service Pipe: 100 Feet

Diameter of Service Pipe: (Auto Calculate)

Regulator

Model Number: S402

Spring Number: T13527T0012

Spring Color: YELLOW

Orifice Size: 0.1250

Body Size: 3/4 x 1 in threaded

Item ID: 372102

Meter

Model Number: AC250

Item ID: AC250

Multiplier: 0.9945

Delivery Pressure: 0.25 psig

Meter Set Pieces

1A: 38-9970

20 LT: 38-9971

Diameter Of Service: 0.50

451

Relief Valve

Not Needed

Model Number:

Spring Number:

Size:

Item ID:

	Mat'l's	Labor	Total
Meter	42	50	92
Regulator	17	17	34
Service			451
			577

Medium Volume
20/0.25

4



Meter Set Configuration

Customer/Job Information

Work Request:

Date Needed: 08/14/01

Customer: N/A

Address: N/A

City: N/A

State: N/A

Zip: 52803

Customer's Load: 1042 CFH

Customer's Delivery Pressure: 0.25 PSIG

Maximum Inlet Pressure: 20 PSIG

Minimum Inlet Pressure: 5 PSIG

Type of Service Pipe: Plastic

Length of Service Pipe: 100 Feet

Diameter of Service Pipe: (Auto Calculate)

Regulator

Model Number: S202

Spring Number: 1D892727012

Spring Color: BLACK

Orifice Size: 0.3750

Body Size: 1-1/2 in threaded

Item ID: 372131

Meter

Model Number: AL1000

Item ID: AL1000

Multiplier: 0.9945

Delivery Pressure: 0.25 psig

Meter Set Pieces

Inlet: 38-8100

1-1/4 in. Customer Connection: 38-8102

1-1/2 in. Customer Connection: 38-8101

Diameter Of Service: 0.75

496

Meter Set Picture

Relief Valve Not Needed

Model Number:

Spring Number:

Size:

Item ID:

	Mat'l	Labor	Total
Meter	550	350	900
Regulator	156	156	312
Service			496
			<u>1708</u>



Medium Volume
20/2

(5)

Meter Set Configuration

Customer/Job Information

Work Request:

Customer: N/A

City: N/A

State: N/A

Date Needed: 08/14/01

Address: N/A

Zip: 52803

Customer's Load: 1042 CFH

Customer's Delivery Pressure: 2 PSIG

Maximum Inlet Pressure: 20 PSIG

Minimum Inlet Pressure: 5 PSIG

Type of Service Pipe: Plastic

Length of Service Pipe: 100 Feet

Diameter of Service Pipe: (Auto Calculate)

Regulator

Model Number: S203H

182

Spring Number: 1H975827032

Spring Color: BLUE

Orifice Size: 0.75

Body Size: 1-1/2 in threaded

Item ID: 372228

Meter

Model Number: AC630

325

Item ID: AC630

Multiplier: 1.1133

Delivery Pressure: 2 psig

Meter Set Pieces

Inlet: 38-8003

1 in. Customer Connection: 38-8001

1-1/4 in. Customer Connection: 38-8002

Diameter Of Service: 0.75

496

Meter Set Picture

Relief Valve

Model Number: No Relief

Spring Number: NA

Size: NA

Item ID: NA

	Mat'l's	Labor	Total
Meter	325	80	405
Regulator	182	182	364
Service			496
			<u>1265</u>

Medium Volume
60/0.25

(6)



Meter Set Configuration

Customer/Job Information

Work Request:

Date Needed: 08/14/01

Customer: N/A

Address: N/A

City: N/A

State: N/A

Zip: 52803

Customer's Load: 1042 CFH

Customer's Delivery Pressure: 0.25 PSIG

Maximum Inlet Pressure: 60 PSIG

Minimum Inlet Pressure: 23 PSIG

Type of Service Pipe: Plastic

Length of Service Pipe: 100 Feet

Diameter of Service Pipe: (Auto Calculate)

Regulator

Model Number: S402

Spring Number: T13527T0012

Spring Color: YELLOW

Orifice Size: 0.1875

Body Size: 3/4 x 1 in threaded

Item ID: 372101

Meter

Model Number: AL1000

Item ID: AL1000

Multiplier: 0.9945

Delivery Pressure: 0.25 psig

Meter Set Pieces

Inlet: 38-8103

1-1/4 in. Customer Connection: 38-8102

1-1/2 in. Customer Connection: 38-8101

Diameter Of Service: 0.75

496

Relief Valve Not Needed

Model Number:

Spring Number:

Size:

Item ID:

Meter Set Picture

	Mat'ls	Labor	Total
Meter	550	350	900
Regulator	17	17	34
Service			496
			<u>1,430</u>



⑦

Meter Set Configuration

Customer/Job Information

Work Request:

Date Needed: 08/14/01

Customer: N/A

Address: N/A

City: N/A

State: N/A

Zip: 52803

Customer's Load: 1042 CFH

Customer's Delivery Pressure: 2 PSIG

Maximum Inlet Pressure: 60 PSIG

Minimum Inlet Pressure: 23 PSIG

Type of Service Pipe: Plastic

Length of Service Pipe: 100 Feet

Diameter of Service Pipe: (Auto Calculate)

Regulator

Model Number: S402

Spring Number: T13536T0012

Spring Color: BLUE

Orifice Size: 0.1875

Body Size: 3/4 x 1 in threaded

Item ID: 372107

Meter

Model Number: AC630

Item ID: AC630

Multiplier: 1.1133

Delivery Pressure: 2 psig

Meter Set Pieces

Inlet: 38-8003

1 in. Customer Connection: 38-8001

1-1/4 in. Customer Connection: 38-8002

Diameter Of Service: 0.75

496

Meter Set Picture

Relief Valve

Not Needed

Model Number:

Spring Number:

Size:

Item ID:

	Mat'l's	Labor	Total
Meter	325	80	405
Regulator	16	16	32
Service			496
			933

Medium Volume
60/5

8



Meter Set Configuration

Customer/Job Information

Work Request:

Date Needed: 08/14/01

Customer: N/A

Address: N/A

City: N/A

State: N/A

Zip: 52803

Customer's Load: 1042 CFH

Customer's Delivery Pressure: 5 PSIG

Maximum Inlet Pressure: 60 PSIG

Minimum Inlet Pressure: 23 PSIG

Type of Service Pipe: Plastic

Length of Service Pipe: 100 Feet

Diameter of Service Pipe: (Auto Calculate)

Regulator

Model Number: S203H

116

Spring Number: 1P615427142

Spring Color: YELLOW

Orifice Size: 0.25

Body Size: 1-1/2 in threaded

Item ID: No MMIS 372217

Meter

Model Number: AC630

325

Item ID: AC630

Multiplier: 1.3170

Delivery Pressure: 5 psig

Meter Set Pieces

Inlet: 38-8003

1 in. Customer Connection: 38-8001

1-1/4 in. Customer Connection: 38-8002

Diameter Of Service: 0.75

496

Meter Set Picture

Relief Valve

Model Number: No Relief

Spring Number: NA

Size: NA

Item ID: NA

	<u>Mat'l's</u>	<u>Labor</u>	<u>Total</u>
Meter	325	80	405
Regulator	116	116	232
Service			<u>496</u>
			1133

Medium Volume
60/10

⑨



Meter Set Configuration

Customer/Job Information

Work Request:

Date Needed: 08/14/01

Customer: N/A

Address: N/A

City: N/A

State: N/A

Zip: 52803

Customer's Load: 1042 CFH

Customer's Delivery Pressure: 10 PSIG

Maximum Inlet Pressure: 60 PSIG

Minimum Inlet Pressure: 23 PSIG

Type of Service Pipe: Plastic

Length of Service Pipe: 100 Feet

Diameter of Service Pipe: (Auto Calculate)

Regulator

Model Number: S301F 227

Spring Number: STANDARD

Spring Color: NONE

Orifice Size: 0.1875

Body Size: 1-1/2 in threaded

Item ID: 372129

Meter

Model Number: AL1000 550

Item ID: AL1000

Multiplier: 1.6564

Delivery Pressure: 10 psig

Meter Set Pieces

Inlet: 38-8104

1-1/4 in. Customer Connection: 38-8102

1-1/2 in. Customer Connection: 38-8101

Diameter Of Service: 0.75

496

Meter Set Picture

Relief Valve

Model Number: Fisher 289H 105

Spring Number: 1D8923 27022

Size: 1 inch

Item ID: 372179

	<u>Mat'l's</u>	<u>Labor</u>	<u>Total</u>
Meter	550	350	900
Regulator/	335	335	670
Relief			496
Service			2,066

Large Volume

(10)



Meter Set Configuration

Customer/Job Information

Work Request:

Date Needed: 08/14/01

Customer: N/A

Address: N/A

City: N/A

State: N/A

Zip: 52803

Customer's Load: 20833 CFH

Customer's Delivery Pressure: 20 PSIG

Maximum Inlet Pressure: 100 PSIG

Minimum Inlet Pressure: 70 PSIG

Type of Service Pipe: Steel

Length of Service Pipe: 100 Feet

Diameter of Service Pipe: (Auto Calculate)

Regulator

Model Number: F299

40Z

Spring Number: T13771T0012

Spring Color: ZINC

Orifice Size: 0.75

Body Size: 2 in flanged

Item ID: 372175

Meter

Model Number: 11M-TC

1714

Item ID: 11M-TC

Multiplier: 2.3353

Delivery Pressure: 20 psig

Meter Set Pieces

Inlet: 38-2070

Top: 38-2079

Bottom: 38-2080

Diameter Of Service: 1.25 / \$949

Steel Punch Size: .875

Relief Valve

Model Number: Fisher 289H

654

Spring Number: 1D7455 27142

Size: Two - 1 inch

Item ID: 372182

Meter Set Picture

	Mat'l's	Labor	Total
Meter	1714	2050	3764
Regulator/Relief	1056	1056	2112
Service			949
			<u>6825</u>



Attachment D

MidAmerican Energy Company

Materials Management Information System

Item Master Report

①

Item #	Item Description	Unit Price	Unit of Measure	Class Code	Standard Code	Part Category	Average Lead Time	Fixed Lead Time
37 2075	***** REPLACED BY 37-2074 *****	\$1.00	EA	3055	MNON	G	30	N
37 2100	REG,S402,3/4X1,1/4"ORIF,YELLOW SPRING REGULATOR,S402,3/4 IN X 1 IN BODY,1/4" ORIFICE,SPRING COLOR YELLOW. LOW RELIEF SPRING. INLET AND OUTLET PRESSURE TAPS. FACTORY SET AND SEAL WITH PLASTIC WIRE. ***REPLACES 37-4271,37-4270,37-4262***	\$16.76	EA	3055	MSTD	G	3	N
→ 37 2101	REG,S402,3/4X1,3/16"ORIF,YELLOW SPRING REGULATOR,S402,3/4 IN X 1 IN BODY,3/16" ORIFICE,SPRING COLOR YELLOW. LOW RELIEF SPRING. INLET AND OUTLET PRESSURE TAPS. FACTORY SET AND SEAL WITH PLASTIC WIRE.	\$16.64	EA	3055	MSTD	G	5	N
→ 37 2102	REG,S402,3/4X1,1/8"ORIF,YELLOW SPRING REGULATOR,S402,3/4 IN X 1 IN BODY,1/8" ORIFICE,SPRING COLOR YELLOW. LOW RELIEF SPRING. INLET AND OUTLET PRESSURE TAPS. FACTORY SET AND SEAL WITH PLASTIC WIRE.	\$16.67	EA	3055	MSTD	G	4	N
37 2103	REG,S402,3/4X1,1/4"ORIF,GREEN SPRING REGULATOR,S402,3/4 IN X 1 IN BODY,1/4" ORIFICE,SPRING COLOR GREEN. LOW RELIEF SPRING. INLET AND OUTLET PRESSURE TAPS. FACTORY SET AND SEAL WITH PLASTIC WIRE.	\$15.75	EA	3055	MSTD	G	14	N
37 2104	REG,S402,3/4X1,3/16"ORIF,GREEN SPRING REGULATOR,S402,3/4 IN X 1 IN BODY,3/16" ORIFICE,SPRING COLOR GREEN. LOW RELIEF SPRING. INLET AND OUTLET PRESSURE TAPS. FACTORY SET AND SEAL WITH PLASTIC WIRE.	\$16.85	EA	3055	MSTD	G	14	N
37 2105	REG,S402,3/4X1,1/8"ORIF,GREEN SPRING REGULATOR,S402,3/4 IN X 1 IN BODY,1/8" ORIFICE,SPRING COLOR GREEN. LOW RELIEF SPRING. INLET AND OUTLET PRESSURE TAPS. FACTORY SET AND SEAL WITH PLASTIC WIRE.	\$16.85	EA	3055	MSTD	G	13	N
37 2106	REG,S402,3/4X1,1/4"ORIF,BLUE SPRING REGULATOR,S402,3/4 IN X 1 IN BODY,1/4" ORIFICE,SPRING COLOR BLUE. MEDIUM RELIEF SPRING. INLET AND OUTLET PRESSURE TAPS. FACTORY SET AND SEAL WITH PLASTIC WIRE.	\$16.54	EA	3055	MSTD	G	9	N
→ 37 2107	REG,S402,3/4X1,3/16"ORIF,BLUE SPRING REGULATOR,S402,3/4 IN X 1 IN BODY,3/16" ORIFICE,SPRING COLOR BLUE. MEDIUM RELIEF SPRING. INLET AND OUTLET PRESSURE TAPS. FACTORY SET AND SEALED WITH PLASTIC WIRE	\$16.43	EA	3055	MSTD	G	4	N
37 2108	REG,S402,3/4X1,1/8"ORIF,BLUE SPRING REGULATOR,S402,3/4 IN X 1 IN BODY,1/8" ORIFICE,BLUE SPRING COLOR. MEDIUM RELIEF SPRING. INLET AND OUTLET PRESSURE TAPS. FACTORY SET AND SEALED WITH PLASTIC WIRE	\$16.32	EA	3055	MSTD	G	3	N
37 2109	REG,S302H,1-1/2",3/8"ORIF,BLACK SPRING REGULATOR,S302H,1-1/2"THREAD,3/8 IN ORIFICE,SPRING COLOR BLACK. INLET AND OUTLET PRESSURE TAPS. PLASTIC SEAL WIRE LOOSE IN BOX.	\$136.57	EA	3055	MSTD	G	30	N
37 2110	REG,S302H,2",1/4"ORIF,BLACK SPRING REGULATOR,S302H,2 IN FLANGE,1/4 IN ORIFICE,SPRING COLOR BLACK. INLET AND OUTLET PRESSURE TAPS. PLASTIC SEAL WIRE LOOSE IN BOX.	\$228.66	EA	3055	MSTD	G	35	N
37 2111	REG,S302H,2",3/8"ORIF,BLACK SPRING REGULATOR,S302H,2 IN FLANGE,3/8 IN ORIFICE,SPRING COLOR BLACK. INLET AND OUTLET PRESSURE TAPS. PLASTIC SEAL WIRE LOOSE IN BOX.	\$228.66	EA	3055	MSTD	G	35	N
37 2112	REG,S302H,2",3/16"ORIF,BLACK SPRING	\$217.78	EA	3055	MSTD	G	30	N



MidAmerican Energy Company
Materials Management Information System
Item Master Report

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DS00455

Item #	Item Description	Unit Price	Unit of Measure	Class Code	Standard Code	Part Category	Average Lead Time	Fixed Lead Time
37 2124	TAPS. PLASTIC SEAL WIRE LOOSE IN BOX.	\$240.22	EA	3055	MSTD	G	6	N
37 2125	REG,S301F,2",3/4"ORIF,STANDARD, REGULATOR,S301F,2 IN FLANGE,3/4 IN ORIFICE,SPRING NUMBER STANDARD,SPRING COLOR NONE. INLET AND OUTLET PRESSURE TAPS. PLASTIC SEAL WIRE LOOSE IN BOX.	\$298.72	EA	3055	MSTD	G	10	N
37 2126	REG,S301F,2",1/2"ORIF,STANDARD, REGULATOR,S301F,2 IN FLANGE,1/2 IN ORIFICE,SPRING NUMBER STANDARD,SPRING COLOR NONE. INLET AND OUTLET PRESSURE TAPS. PLASTIC SEAL WIRE LOOSE IN BOX. ***** REPLACES 37-2214 *****	\$298.72	EA	3055	MSTD	G	30	N
37 2127	REG,S301F,2",3/8"ORIF,STANDARD, REGULATOR,S301F,2 IN FLANGE,3/8 IN ORIFICE,SPRING NUMBER STANDARD,SPRING COLOR NONE. INLET AND OUTLET PRESSURE TAPS. PLASTIC SEAL WIRE LOOSE IN BOX. ***** REPLACES 37-2213 *****	\$312.91	EA	3055	MSTD	G	40	N
37 2128	REG,S301F,2",1/16"ORIF,STANDARD, REGULATOR,S301F,2 IN FLANGE,1/16 IN ORIFICE,SPRING NUMBER STANDARD,SPRING COLOR NONE. INLET AND OUTLET PRESSURE TAPS. PAINT ASA #49 GRAY. SEAL WIRE LOOSE IN BOX. ***** NO REPLACEMENT *****	\$298.72	EA	3055	MNON	G	30	N
✈ 37 2129	REG,S301F,1-1/2",3/16"ORIF,STANDARD, REGULATOR,S301F,1-1/2"THREAD,3/16 IN ORIFICE,SPRING NUMBER STANDARD,SPRING COLOR NONE. INLET AND OUTLET PRESSURE TAPS. PLASTIC SEAL WIRE LOOSE IN BOX.	\$226.62	EA	3055	MSTD	G	30	N
37 2130	REG,S301F,2",3/16"ORIF,STANDARD, REGULATOR,S301F,2 IN FLANGE,3/16 IN ORIFICE,SPRING NUMBER STANDARD,SPRING COLOR NONE. INLET AND OUTLET PRESSURE TAP. PLASTIC SEAL WIRE LOOSE IN BOX. ***** REPLACES 37-2211 *****	\$298.72	EA	3055	MSTD	G	30	N
✈ 37 2131	REG,S202,1-1/2",3/8"ORIF,BLACK SPRING REGULATOR,S202,1-1/2 IN THREAD,3/8 IN ORIFICE,SPRING COLOR BLACK. INLET AND OUTLET PRESSURE TAPS. PLASTIC SEAL WIRE LOOSE IN BOX ***** REPLACES 38-8080 *****	\$155.96	EA	3055	MSTD	G	6	N
37 2132	REG,S202,1-1/2",1/4"ORIF,BLACK SPRING REGULATOR,S202,1-1/2 IN THREAD,1/4 IN ORIFICE,SPRING COLOR BLACK. INLET AND OUTLET PRESSURE TAPS. PLASTIC SEAL WIRE LOOSE IN BOX.	\$157.47	EA	3055	MSTD	G	3	N
37 2133	REG,S202,2",1/2"ORIF,BLACK SPRING REGULATOR,S202,2 IN FLANGE,1/2 IN ORIFICE,SPRING COLOR BLACK. INLET AND OUTLET PRESSURE TAPS. PLASTIC SEAL WIRE LOOSE IN BOX.	\$225.85	EA	3055	MSTD	G	3	N
37 2134	REG,S202,2",3/8"ORIF,BLACK SPRING REGULATOR,S202,2 IN FLANGE,3/8 IN ORIFICE,SPRING COLOR BLACK. INLET AND OUTLET PRESSURE TAPS. PLASTIC SEAL WIRE LOOSE IN BOX. ***** REPLACES 38-2360 *****	\$229.60	EA	3055	MSTD	G	4	N
37 2135	REG,S202,2",1/4"ORIF,BLACK SPRING REGULATOR,S202,2 IN FLANGE,1/4 IN ORIFICE,SPRING COLOR BLACK. INLET AND OUTLET PRESSURE TAPS. PLASTIC SEAL WIRE LOOSE IN BOX.	\$230.76	EA	3055	MSTD	G	3	N

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DS00455



MidAmerican Energy Company
Materials Management Information System
Item Master Report

Item #	Item Description	Unit Price	Unit of Measure	Class Code	Standard Code	Part Category	Average Lead Time	Fixed Lead Time
37 2173	ORIFICE,SPRING COLOR ZINC. INLET AND OUTLET PRESSURE TAPS. PLASTIC SEAL WIRE LOOSE IN BOX.	\$422.50	EA	3055	MSTD	G	25	N
37 2174	REG,299,2",1/4"ORIF,ZINC SPRING REGULATOR,299,2 IN FLANGE,1/4 IN ORIFICE,SPRING COLOR ZINC. INLET AND OUTLET PRESSURE TAPS. PLASTIC SEAL WIRE LOOSE IN BOX.	\$402.38	EA	3055	MSTD	G	30	N
→ 37 2175	REG,299,2",3/4"ORIF,ZINC SPRING REGULATOR,299,2 IN FLANGE,3/4 IN ORIFICE,SPRING COLOR ZINC. INLET AND OUTLET PRESSURE TAPS. PLASTIC SEAL WIRE LOOSE IN BOX.	\$402.38	EA	3055	MSTD	G	30	N
37 2176	REG,299,2",1"ORIF,ZINC SPRING REGULATOR,299,2 IN FLANGE,1 IN ORIFICE,SPRING COLOR ZINC. INLET AND OUTLET PRESSURE TAPS. PLASTIC SEAL WIRE LOOSE IN BOX.	\$402.38	EA	3055	MSTD	G	30	N
37 2177	VLV,REL,289L,1",12-40"WC,SPR RNG VALVE,RELIEF,289L,1 IN BODY,12-40"WC SPRING RANGE. THE RELIEF VALVE SHOULD HAVE SILVER COLOR SPRING. ***** REPLACES 38-3075 *****	\$85.18	EA	3055	MSTD	G	4	N
37 2178	VLV,REL,289H,1",1-4 1/2 PSIG,SPR RNG VALVE,RELIEF,289HL,1 IN BODY,1-1/2 PSIG SPRING RANGE. THE RELIEF VALVE SHOULD HAVE PINK SPRING. ***** REPLACES 38-3071 *****	\$106.20	EA	3055	MSTD	G	8	N
79	VLV,REL,289H,1",4-15 PSIG,SPR RNG VALVE,RELIEF,289HL,1 IN BODY,4-15 PSIG SPRING RANGE. THE RELIEF VALVE SHOULD HAVE RED SPRING. ***** REPLACES 38-3072 *****	\$107.60	EA	3055	MSTD	G	6	N
→ 37-2179								
37 2180	VLV,REL,289H,1",10-20 PSIG,SPR RNG VALVE,RELIEF,289H,1 IN BODY,10-20 PSIG SPRING RANGE. THE RELIEF VALVE SHOULD HAVE SILVER SPRING. ***** REPLACES 38-3070 *****	\$109.64	EA	3055	MSTD	G	1	N
37 2181	VLV,REL,289H,1",15-50 PSIG,SPR RNG VALVE,RELIEF,289H,1 IN BODY,15-50 PSIG SPRING RANGE. THE RELIEF VALVE SHOULD HAVE GREEN SPRING. ***** REPLACES 38-3073 *****	\$108.82	EA	3055	MSTD	G	6	N
→ 37 2182	VLV,REL,289H,2",1/2-2-1/4 PSIG,SPR RNG VALVE,RELIEF,289H,2 IN BODY,1/2- 2 1/4 PSIG, SPRING RANGE. THE RELIEF VALVE SHOULD HAVE GRAY SPRING.	\$326.58	EA	3055	MSTD	G	4	N
37 2183	VLV,REL,289H,2",4-10 PSIG,SPR RNG VALVE,RELIEF,289H,2 IN BODY,4-10 PSIG SPRING RANGE. THE RELIEF VALVE SHOULD HAVE RED SPRING.	\$323.84	EA	3055	MSTD	G	6	N
37 2184	VLV,REL,289H,2",1 3/4-7 PSIG,SPR RNG VALVE,RELIEF,289H,2 IN BODY,1 3/4-7 PSIG SPRING RANGE. THE RELIEF VALVE SHOULD HAVE DARK GREEN SPRING.	\$326.45	EA	3055	MSTD	G	8	N
37 2185	VLV,REL,289P-6365,2",1/2-2 PSIG,SPR RNG VALVE,RELIEF,289P-6365,2 IN BODY,1/2-2 PSIG SPRING RANGE. THE RELIEF VALVE SHOULD HAVE YELLOW SPRING. ***** REPLACES 38-3080 *****	\$476.62	EA	3055	MSTD	G	6	N
37 2186	VLV,REL,289P-6358B,2",2-10 PSIG,SPR RNG VALVE,RELIEF,289P-6358B,2 IN BODY,2-10 PSIG SPRING RANGE. THE RELIEF VALVE	\$481.68	EA	3055	MSTD	G	3	N

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DS00455



MidAmerican Energy Company Materials Management Information System Item Master Report

Item d	Item Description	Unit Price	Unit of Measure	Class Code	Standard Code	Part Category	Average Lead Time	Fixed Lead Time
37 2215	ORIFICE,SPRING COLOR BLUE. INLET AND OUTLET PRESSURE TAPS. PLASTIC SEAL WIRE LOOSE IN BOX.	\$116.64	EA	3055	MSTD	G	9	N
37 2216	REG,S302,1-1/2",3/8"ORIF,BLUE SPRING REGULATOR,S302,1-1/2 IN THREAD,3/8 IN ORIFICE,SPRING COLOR BLUE. INLET AND OUTLET PRESSURE TAPS. PLASTIC SEAL WIRE LOOSE IN BOX.	\$118.48	EA	3055	MSTD	G	14	N
→ 37 2217	REG,S302,1-1/2",1/2"ORIF,BLUE SPRING REGULATOR,S302,1-1/2 IN THREAD,1/2 IN ORIFICE,SPRING COLOR BLUE. INLET AND OUTLET PRESSURE TAPS. PLASTIC SEAL WIRE LOOSE IN BOX.	\$116.27	EA	3055	MSTD	G	17	N
37 2218	REG,S302,1-1/2",3/4"ORIF,BLUE SPRING REGULATOR,S302,1-1/2 IN THREAD,3/4 IN ORIFICE,SPRING COLOR SPRING. INLET AND OUTLET PRESSURE TAPS. PLASTIC SEAL WIRE LOOSE IN BOX.	\$118.48	EA	3055	MSTD	G	3	N
37 2219	REG,S302,2",1/4"ORIF,BLUE SPRING REGULATOR,S302,2 IN FLANGE,1/4 IN ORIFICE,SPRING COLOR BLUE. INLET AND OUTLET PRESSURE TAPS. PLASTIC SEAL WIRE LOOSE IN BOX.	\$196.11	EA	3055	MSTD	G	16	N
37 2220	REG,S302,2",3/8"ORIF,BLUE SPRING REGULATOR,S302,2 IN FLANGE,3/8 IN ORIFICE,SPRING COLOR BLUE. INLET AND OUTLET PRESSURES TAPS. PLASTIC SEAL WIRE LOOSE IN BOX.	\$186.40	EA	3055	MSTD	G	30	N
37 2221	REG,S302,2",1/2"ORIF,BLUE SPRING REGULATOR,S302,2 IN FLANGE,1/2 IN ORIFICE,SPRING COLOR BLUE. INLET AND OUTLET PRESSURE TAPS. PLASTIC SEAL WIRE LOOSE IN BOX.	\$195.72	EA	3055	MSTD	G	35	N
37 2222	REG,S302,2",3/4"ORIF,BLUE SPRING REGULATOR,S302,2 IN FLANGE,3/4 IN ORIFICE,SPRING COLOR BLUE. INLET AND OUTLET PRESSURE TAPS. PLASTIC SEAL WIRE LOOSE IN BOX.	\$186.40	EA	3055	MSTD	G	30	N
37 2224	REG,S202H,1-1/2",1-3/16"ORIF,BLUE SPRING REGULATOR,S202H,1-1/2 IN THREAD,1-3/16IN ORIFICE,SPRING COLOR BLUE. INLET AND OUTLET PRESSURE TAPS. PLASTIC SEAL WIRE LOOSE IN BOX.	\$179.88	EA	3055	MSTD	G	6	N
37 2225	REG,S202H,2",1-3/16",ORIF,BLUE SPRING REGULATOR,S202H,2 IN FLANGE,1-3/16 IN ORIFICE,SPRING COLOR BLUE. INLET AND OUTLET PRESSURE TAPS. SEAL WIRE LOOSE IN BOX. ***** NO REPLACEMENT *****	\$251.75	EA	3055	MNON	G	13	N
37 2226	REG,S202H,1-1/2",1"ORIF,BLUE SPRING REGULATOR,S202H,1-1/2 IN THREAD,1 IN ORIFICE,SPRING COLOR BLUE. INLET AND OUTLET PRESSURE TAPS. SEAL WIRE LOOSE IN BOX. ***** NO REPLACEMENT *****	\$182.44	EA	3055	MSTD	G	6	N
37 2227	REG,S202H,2",1"ORIF,BLUE SPRING REGULATOR,S202H,2 IN FLANGE,1 IN ORIFICE,SPRING COLOR BLUE. INLET AND OUTLET PRESSURE. SEAL WIRE LOOSE IN BOX. ***** NO REPLACEMENT *****	\$239.76	EA	3055	MNON	G	30	N
→ 37 2228	REG,S202H,1-1/2",3/4",ORIF,1H975927032, REGULATOR,S202H,1-1/2 IN THREAD,3/4 IN	\$182.44	EA	3055	MNON	G	10	N

Attachment E Meter Prices

ATTACHMENT ML-4E
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Effective 1/1/2001 MidAmerican Energy

Description	Cost	Install Cost	
AC250NTC	\$ 42	\$ 50	sm. vol.
AC250TC	\$ 43	\$ 50	
AC250TC/HEX	\$ 45	\$ 50	
AC250TC/ERT	\$ 44	\$ 50	
AL425TC	\$ 125	\$ 80	
AL425TC/ERT	\$ 126	\$ 80	
AC630TC	\$ 325	\$ 80	med. vol.
AL800TC	\$ 555	\$ 350	
AL1000TC	\$ 550	\$ 350	med. vol.
RO415TC	\$ 110	\$ 80	
RO750TC	\$ 572	\$ 350	
RO275TC	\$ 45	\$ 50	
S400ATC	\$ 113	\$ 80	
S675ATC	\$ 485	\$ 80	
S1000TC	\$ 570	\$ 350	
8CTQMCD	\$ 645	\$ 350	
8CTQMTC	\$ 699	\$ 350	
11CTQMTC	\$ 701	\$ 350	
11CTQMCD	\$ 655	\$ 350	
15CTQMTC	\$ 721	\$ 350	
15CTQMCD	\$ 668	\$ 350	
1.5MTQMTC	\$ 770	\$ 350	
1.5MTQMCD	\$ 711	\$ 350	
2MTQMTC	\$ 724	\$ 350	
2MTQMCD	\$ 671	\$ 350	
3MTQMTC	\$ 729	\$ 350	
3MTQMCD	\$ 686	\$ 350	
5MTQMTC	\$ 1,080	\$ 2,050	
5MTQMCD	\$ 993	\$ 2,050	
7MTQMTC	\$ 1,416	\$ 2,050	
7MTQMCD	\$ 1,331	\$ 2,050	
11MTQMTC	\$ 1,714	\$ -	2050 lg. vol.
11MTQMCD	\$ 1,600	\$ -	
16MTQMTC	\$ 2,372	\$ -	
16MTQMCD	\$ 2,262	\$ -	
23MTQMCD	\$ 4,037	\$ -	
38MTQMCD	\$ 5,244	\$ -	
56MTQMCD	\$ 7,235	\$ -	
CPA	\$ 388	\$ -	
MINI P&T 0-6 1M 2V08	\$ 1,499	\$ 100	
MINI P&T 0-30 1M 2V09	\$ 1,499	\$ 100	
MINI P&T 0-100 1M 2V10	\$ 1,499	\$ 100	
MINI P&T 0-300 1M 2V11	\$ 1,499	\$ 100	
MINI P 0-30 1M 2P03	\$ 1,267	\$ 100	
MINI P 0-100 1M 2P04	\$ 1,267	\$ 100	
MINI AT-PT 0-6	\$ 1,587	\$ 100	

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